



Pharmacy Information System (PhIS) and Clinic Pharmacy System (CPS)

Klinik Kesihatan Rantau Panjang

**JKN SELANGOR
(ZONE 10)**

1ST Preventive Maintenance Report

P.M. Date	21 FEBRUARY 2018
Report ID	PM/REPORT/ZONE10/KKRANTAUPANJANG
Report Version	V1.0



PhIS & CPS PROJECT



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Revision History:

Ver. No	Date of Release	Consolidated by	List of Changes from Previous Version	Signature & Date
1.0	21/02/2018	Muhammad Anuar bin Awaluddin	Initial document	 MUHAMMAD ANUAR B. AWALUDDIN PhIS & CPS Implementer Pharmaniaga Logistic Sdn. Bhd. 21/2/18

Verified and Acknowledged by facility:

Received / Acknowledged by facility	
Name	
Signature / Company Stamp	 MURNIATI BINTI MAZRI PEGAWAI FARMASI U48 KLINIK KESIHATAN RANTALI PANJANG
Designation / Department	
Date	21/2/18

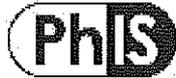


PhIS & CPS PROJECT



Appendix A

Certificate of Acceptance



EXECUTION OF PREVENTIVE MAINTENANCE

Project: PhIS & CPS

**1ST Preventive Maintenance (2018)
For
Klinik Kesihatan Rantau Panjang**

Summary findings for Preventive Maintenance conducted on 21/02/2018

No	Item	Allocated Quantity	Serviced Quantity	Remarks
1	Desktop	2	2	
2	LaserJet Printer	1	1	
3	Thermal Printer	1	1	
4	Switch	1	1	
5	Server	1	1	
6	UPS	1	1	

Signature & Stamp:

<p><u>For PLSB</u></p>  <p>Name: MUHAMMAD ANJAR D. AWALUDDIN Designation: PhIS & CPS Implementer, Pharmaniaga Logistic Sdn. Bhd. Date: 21/2/18</p>	<p><u>For Facility</u></p>  <p>Name: MURNIATI BINTI MAZRI Designation: PEGAWAI FARMASI U48 KLINIK KESIHATAN RANTAU PANJANG Date: 21/2/18</p>
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Appendix B

Preventive Maintenance Checklist

**PREVENTIVE MAINTENANCE CHECKLIST
(SERVER / UPS / STORAGE)**

(FORM 2)

FACILITY : **KLINIK KESIHATAN RANTAU PANJANG**
 STATE : **SELANGOR**

DEPT : **IT**
 ZONE : **10**

LOCATION : **OUTPATIENT PHARMACY**

SERVER 1	SERVER 2	UPS
PAT ID : CPS/SEL-03/KKS-09/SVR-001	PAT ID : CPS/SEL-03/KKS-09/UPS-001	
SERIAL NO : 06FKYCD	SERIAL NO : 1520703196AF413	
MODEL : IBM X3500 M5	MODEL : LIEBERT GXT3-1000RT230	

If Alert is tick (✓), fill in & elaborate details in FINDINGS / COMMENTS / DETECTION session.

PART I - HARDWARE / CABLING & CONNECTIVITY (INSPECTION & PHYSICAL CHECK)

Standard Task:

- Cleaning
 - Verify Condition :
 - Connection via LAN / USB
 - Fan/ Power Supply
 - Light Path Diagnosis panel
 - UTP Cable connect to switch
 - HA Gateway to Core Switch
- (For Hospital only)*

Function	SERVER 1	
	Not Function & Resolved	Alert
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Function	SERVER 2	
	Not Function & Resolved	Alert
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Function	UPS	
	Not Function & Resolved	Alert
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

By pass Test
 Webcard
 Multilink

Available	Type	Faulty
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Backup Tape Qty

PART II - SETUP & HEALTH CHECK

Function	SERVER 1		SERVER 2	
	Not Function & Resolved	Alert	Not Function & Unresolved	Ticket No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Run DSA & collect DSA Log
 SERVER 1
 SERVER 2

Software/Firmware Version :

Current	Updated
0.98.3	
2.2.6	
5.2.12	
3.1.2.2	
1.1.2	
1.1.1.8	

SERVER 2	
Current	Updated

System Software
 SUSE LINUX (OS)
 Kernel
 GCC

Housekeeping:

- Clear /tmp folder > 2 weeks
- Archive Log Files

SERVER 2	
Current	Updated

SERVER 1	
Current	Updated
SUSE 11	
3-0.76-0.11	
4.3.4	

SERVER 1	
Current	Updated

SERVER 2	
Current	Updated

Screenshot / attachment

Screenshot / attachment

N/A

**PREVENTIVE MAINTENANCE CHECKLIST
(SERVER / UPS / STORAGE)**

(FORM 2)

PATID : _____
 SERIAL NO: _____
 TYPE : STORAGE

PART III - STORAGE N/A

Function	Not Function & Resolved		Not Function & Unresolved	
	Alert	Ticker No	Alert	Ticker No
Perform Health Check:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storage Manager Error Alerts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storage events logs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HDD indicator lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enable read/write cache	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enable Media Scan both at controller level and LUN level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Software/Firmware Version :
 Controller
 ESM
 Driver

Current	Updated

PART IV - FINDINGS / ALERTS / DETECTION **FURTHER ACTION / RECOMMENDATION**

PART V - ACKNOWLEDGEMENT

CUSTOMER

Signature & Stamp: 
 Customer Name: MURNIATI BINTI MAZRI
 Date: 21/12/18
 PEGAWAI FARMASI U48
 KLINIK KESIHATAN RANTAU PANJANG

PHARMANIAGA LOGISTICS SDN BHD (PLSB)

Signature & Stamp: 
 Engineer Name: MUHAMMAD ANWAR D. AVELLO
 Date: 21/12/18
 PMS & OPS Implant
 PHARMANIAGA LOGISTICS

**PREVENTIVE MAINTENANCE CHECKLIST
(CORE SWITCH / DISTRIBUTION SWITCH)**

(FORM 3)

FACILITY : **KLINIK KESIHATAN RANTAU PANJANG** DEPT: **IT** STATE : **SELANGOR** ZONE : **10**

PAT ID : **CPS/SEL-03/KKS-09/DSW-001** Location : _____ Registration Counter : _____
 SERIAL NO: **DN1192707AR** Location : _____
 Loaned Unlocated Relocated

PART I - STANDARD TASK		PART II - STANDARD HEALTH CHECK			PART III - STANDARD SETUP		
Function	Not Function & Resolved	Alert	Not Function & Unresolved	Function	Not Function & Resolved	Alert	Not Function & Unresolved
Cleaning <input type="checkbox"/>	Verify Condition : Cable & Connection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Power Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Check LED Status	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	System LED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Master LED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	STACK ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SSH Access & Connection
 Execute Putty to start
 Specify the IP to connect
 Test Login
 Test & Verify Management IP via console access

PAT ID : _____ Location : _____
 SERIAL NO: _____
 Loaned Unlocated Relocated

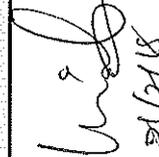
PART I - STANDARD TASK		PART II - STANDARD HEALTH CHECK			PART III - STANDARD SETUP		
Function	Not Function & Resolved	Alert	Not Function & Unresolved	Function	Not Function & Resolved	Alert	Not Function & Unresolved
Cleaning <input type="checkbox"/>	Verify Condition : Cable & Connection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Power Supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Check LED Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	System LED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Master LED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	STACK ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SSH Access & Connection
 Execute Putty to start
 Specify the IP to connect
 Test Login
 Test & Verify Management IP via console access

PART IV - FINDINGS / COMMENTS / DETECTION

FURTHER ACTION / RECOMMENDATION

PART V - ACKNOWLEDGEMENT

CUSTOMER	PHARMANIAGA LOGISTICS SDN BHD (MSB)
Signature & Stamp	 MURNIATI BINTI MAZRI PEGAWAI FARMASI U48 KLINIK KESIHATAN RANTAU PANJANG
Customer Name	MUHAMMAD ANUAR B. AWALUDIN PHS & CPS Implementation Pharmaniaga Logistic Sdn. Bhd.
Date	21/2/18

**PREVENTIVE MAINTENANCE CHECKLIST
(DEVICE)**

FACILITY : **KLINIK KESIHATAN RANTAU PANJANG**

DEPT : **OUTPATIENT PHARMACY**

LOCATION :

STATE : **SELANGOR**

ZONE : **10**

PAT ID : **CPS/SEL-09/KKS-09/P/CD-001**

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Procurement, Receiving, Distribution & Dispensing**

S/N CPU : **PC05FLM3**

MONITOR : **V901R4GD**

KEYBOARD : **0000942**

MOUSE : **H5515HA157K**

Loaned: Unlocated: Relocated:

PART I - STANDARD TASK

N/A

All Device: Cleaning

Desktop/Notebook: Device is harden Yes No N/A

MEMORY : 2 GB 4 GB

Verify Condition : Connection via LAN / USB Fan/ Power Supply/ Charger

Hard Disk Utilization (GB) : 1st Partition 2nd Partition

115 123 77.6 134

Alert: Ticket No:

Free: Alert: Ticket No:

Function: Not Function & Unresolved:

Alert: Ticket No:

Free: Alert: Ticket No:

PART II - STANDARD HEALTH CHECK

N/A

Verification: IWP KYM PHIS Portal

Auto update disabled: (a) Java (JDK 6 update 30) (b) Internet Explorer 9 (64bits) ClamAV - Ver 0.98.3 Microsoft Office BCP (BCP PC only) Backup PC (Bacula Web)

Function: Not Function & Resolved:

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Screening, Verification, Labelling, Dispensing**

PAT ID : **CPS/SEL-09/KKS-09/P/CD-002**

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Screening, Verification, Labelling, Dispensing**

S/N CPU : **PC05FLHS**

MONITOR : **V901R4HB**

KEYBOARD : **0000842**

MOUSE : **H5515HA15BK**

Loaned: Unlocated: Relocated:

PART I - STANDARD TASK

N/A

All Device: Cleaning

Desktop/Notebook: Device is harden Yes No N/A

MEMORY : 2 GB 4 GB

Verify Condition : Connection via LAN / USB Fan/ Power Supply/ Charger

Hard Disk Utilization (GB) : 1st Partition 2nd Partition

125 114 75.6 134

Alert: Ticket No:

Free: Alert: Ticket No:

Function: Not Function & Unresolved:

Alert: Ticket No:

Free: Alert: Ticket No:

PART II - STANDARD HEALTH CHECK

N/A

Verification: IWP KYM PHIS Portal

Auto update disabled: (a) Java (JDK 6 update 30) (b) Internet Explorer 9 (64bits) ClamAV - Ver 0.98.3 Microsoft Office BCP (BCP PC only) Backup PC (Bacula Web)

Function: Not Function & Resolved:

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Medication Counselling, MTAC, Procurement, Receiving, Dist**

PAT ID : **CPS/SEL-09/KKS-09/LJP-001**

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Medication Counselling, MTAC, Procurement, Receiving, Dist**

S/N CPU : **451457LM2GLTY**

MONITOR :

KEYBOARD :

MOUSE :

Loaned: Unlocated: Relocated:

PART I - STANDARD TASK

N/A

All Device: Cleaning

Desktop/Notebook: Device is harden Yes No N/A

MEMORY : 2 GB 4 GB

Verify Condition : Connection via LAN / USB Fan/ Power Supply/ Charger

Hard Disk Utilization (GB) : 1st Partition 2nd Partition

Alert: Ticket No:

Free: Alert: Ticket No:

Function: Not Function & Unresolved:

Alert: Ticket No:

Free: Alert: Ticket No:

PART II - STANDARD HEALTH CHECK

N/A

Verification: IWP KYM PHIS Portal

Auto update disabled: (a) Java (JDK 6 update 30) (b) Internet Explorer 9 (64bits) ClamAV - Ver 0.98.3 Microsoft Office BCP (BCP PC only) Backup PC (Bacula Web)

Function: Not Function & Resolved:

DESKTOP / **NOTEBOOK / LASERJET / THERMAL-PRINTER**

Location : **Medication Counselling, MTAC, Procurement, Receiving, Dist**

**PREVENTIVE MAINTENANCE CHECKLIST
(DEVICE)**

FACILITY : **KLINIK KESIHATAN RANTAU PANJANG**

DEPT : **OUTPATIENT PHARMACY**

LOCATION :

STATE : **SELANGOR**

ZONE : **10**

PAT ID : **CPS/SEL-05/KKS-09/THP-001**

DESKTOP / **NOTEBOOK / LASERJET / THERMAL PRINTER**

Location : **Screening, Verification & Labelling**

S/N CPU : **2305N001060**

KEYBOARD :

MONITOR :

Laned: Unloaned: Relocated:

PART I - STANDARD TASK

PART II - STANDARD HEALTH CHECK

PART III - STANDARD SETUP

All Device: Cleaning

Desktop/Notebook: Yes No N/A

Device is harden

MEMORY : 2 GB 4 GB

Function: Not Function & Resolved Alert: Ticket No:

Verification: IWP KYM PhIS Portal

Function: Not Function & Resolved

Auto update disabled: (a) Java (JDK 6 update 30) (b) Internet Explorer 9 (64bits) ClamAV - Ver 0.98.3 Microsoft Office BCP (BCP PC only) Backup PC (Bacula Web)

Function: Not Function & Resolved Updated Version

PAT ID :

KEYBOARD :

MONITOR :

Location :

Relocated:

PART I - STANDARD TASK

PART II - STANDARD HEALTH CHECK

PART III - STANDARD SETUP

All Device: Cleaning

Desktop/Notebook: Yes No N/A

Device is harden

MEMORY : 2 GB 4 GB

Function: Not Function & Resolved Alert: Ticket No:

Verification: IWP KYM PhIS Portal

Function: Not Function & Resolved

Auto update disabled: (a) Java (JDK 6 update 30) (b) Internet Explorer 9 (64bits) ClamAV - Ver 0.98.3 Microsoft Office BCP (BCP PC only) Backup PC (Bacula Web)

Function: Not Function & Resolved Updated Version

PART IV - FINDINGS / ALERTS / DETECTION

FURTHER ACTION / RECOMMENDATION

PART V - ACKNOWLEDGEMENT

Signature & Stamp

MURNIATI BINTI MAZRI
PEGAWAI FARMASI U48
KLINIK KESIHATAN RANTAU PANJANG

Signature & Stamp

MUHAMMAD ANUAR D. AWALUDIN
PHIS & CPS Implementasi
Pharmaniaga Logistik SDN BHD

Customer Name

KLINIK KESIHATAN RANTAU PANJANG

Engineer Name

Pharmaniaga Logistik SDN BHD

Date

21/1/18

Date

21/1/18



PhIS & CPS PROJECT



Appendix C

Hardware Inventory List



PHIS & CPS PROJECT



Hardware Inventory List

List of equipment available in the facility as per below table:

1. PCD

No	CPU	MONITOR	KEYBOARD	MOUSE	ASSET TAGGING	DEPARTMENT	LOCATION
1	PC05FLM3	V901R4GD	0000942	HS515HA157K	CPS/SEL-03/KKS-09/PCD-001	Outpatient Pharmacy	Screening, Verification, Labelling & Dispensing
2	PC05FLHS	V901R4HB	0000842	HS515HA15BX	CPS/SEL-03/KKS-09/PCD-002	Outpatient Pharmacy	Screening, Verification ; Labelling , Dispensing

2. THERMAL PRINTER

No.	THERMAL	ASSET TAGGING	DEPARTMENT	LOCATION
1	2305N001060	CPS/SEL-03/KKS-09/THP-001	Outpatient Pharmacy	Screening, Verification & Labelling

3. LASERJET PRINTER

No.	LASERJET	ASSET TAGGING	DEPARTMENT	LOCATION
1	451457LM2GLTY	CPS/SEL-03/KKS-09/LJP-001	Outpatient Pharmacy	Medication Counselling ,MTAC, Procurement, Receiving, Distribution

4. SWITCH

No.	SWITCH	ASSET TAGGING	DEPARTMENT	LOCATION
1	DNI1922707AR	CPS/SEL-03/KKS-09/DSW-001	IT Department	Registration Counter

5. SERVER

No.	SERVER S/N	ASSET TAGGING	DEPARTMENT	LOCATION
1	06FKYCD	CPS/SEL-03/KKS-09/SVR-001	Outpatient Pharmacy	Outpatient Pharmacy

6. UPS

No.	UPS S/N	ASSET TAGGING	DEPARTMENT	LOCATION
1	1520703196AF413	CPS/SEL-03/KKS-09/UPS-001	Outpatient Pharmacy	Outpatient Pharmacy